Personal Video Recorder

Free-To-Air

PVR-8000T

User's Manual

HUMAX

your prime time

Notice

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Thank you for purchasing a HUMAX digital terrestrial receiver and personal video recorder.

Please read this user manual carefully, to be able to safely install, use and maintain the receiver at maximum performance. Keep this user manual next to your receiver for future reference.

Notice

Read this manual carefully and make sure you understand the instructions provided. For your safety, check what the result of each action will be.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**

  Indicates a hazardous situation which, if not avoided, could result in serious injury.

- **Caution**

  Indicates a situation which, if not avoided, could damage the equipment or other apparatus.

- **Note**

  Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and to maintain the installation.

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Safety and Warning

This receiver has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. **MAINS SUPPLY**

   90 - 250V AC 50/60Hz
   Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. **OVERLOADING**

   Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. **LIQUIDS**

   The product should not be exposed to any liquids such as dripping or splashing. In addition, no objects filled with liquids, such as vase, shall be placed on the apparatus.

4. **CLEANING**

   Disconnect the product from the wall outlet before cleaning.
   Use a light damp cloth (no solvents) to dust the product.

5. **VENTILATION**

   The slots on top of the product must be left uncovered to allow proper airflow to the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

6. **ATTACHMENTS**

   Do not use any unsupported attachments as these may be hazardous or cause damage the product.

7. **CONNECTION TO THE AERIAL**

   Disconnect the product from the mains before connecting or disconnecting the cable from the aerial. Failure to do so can damage the aerial.

8. **CONNECTION TO THE TV**

   Disconnect the product from the mains before connecting or disconnecting the cable from the aerial. Failure to do so can damage the TV.

9. **EARTHING**

   The aerial cable must be buried in the ground.
   The buried cable of the system must comply with SABS 061.

10.LOCATION

Place the product indoors to avoid exposing it to lightening, rain or sun. Do not place it near a radiator or heat register. Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR. Do not block these openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface. If you place the product on a rack or bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting. Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

11.LIGHTNING, STORM, or NOT IN USE

Unplug the product from the wall outlet and disconnect the aerial during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

12.EXTRANEOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage point or damage parts.

13.REPLACEMENT of PARTS

When the replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorised substitutions may result in additional damage to the unit.

Warning

1. Follow these directions in order not to damage the power cord or plug. Do not modify or process the power cord or plug arbitrarily. Do not bend or twist the power cord too much. Make sure to disconnect the power cord with the plug held. Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
2. Follow these directions. Failure to follow one of them may cause electrical shock. Do not open the main body. Do not insert metals or inflammable objects inside the product. Do not touch the power plug with wet hands. Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused toit. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or alien substance into the slots for the modules and smart cards. In doing so can cause damage to the STB and reduce its life span.
5. Hard Disk Drive
   Do not move the product or turn the power off suddenly while the hard disk drive is running. The company shall not be liable for any corruption of data on the hard disk drive caused by the carelessness or misuse of users. Do not separate the hard disk drive from the main body.

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1.Before Using the Receiver

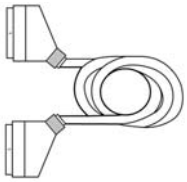
This chapter provides detailed instructions on the product and its accessories.

1.1 Package Contents

Please check all package contents before using your product.

Remote Control Unit

User's Manual



Scart Cable

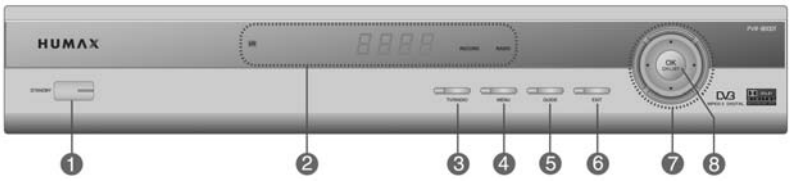
Batteries

Note:

- Since faults may occur if the remote controller is being left without a battery for a long time, always keep the battery inserted in the remote controller.
- Package Contents can be changeable according to the area.

1. Before Using the Receiver

1.2 Front Panel



1. **STANDBY**

   Switches between Operation and Standby modes.

2. **Sensor, Display and LED**

   IR
   Infrared remote control command indicator. This indicator lights up momentarily when a command from the handset is received.

   Digit LED Display
   This will display the current channel or certain programming functions when using the menus.

   RECORD LED
   Indicates that the STB is in recording mode.

   RADIO LED
   Indicates that the STB is in radio mode.

3. **TV/RADIO Button**

   Switches between TV and Radio.

4. **MENU**

   Displays the main menu.

5. **GUIDE**

   Displays the Programme Guide.

6. **EXIT**

   Exits the main menu or Guide screen.

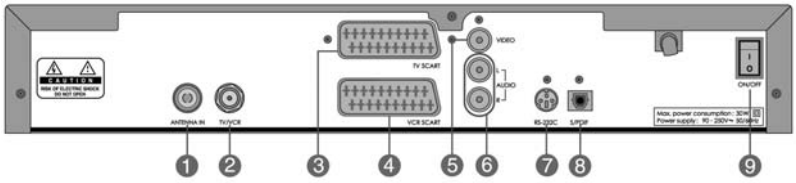
7. **ARROW buttons**

   Changes the channel or move the cursor to the up, down, left or right menu option.

8. **OK**

   Selects a menu, or confirm the selected operation. And display the channel list whilst watching a programme.

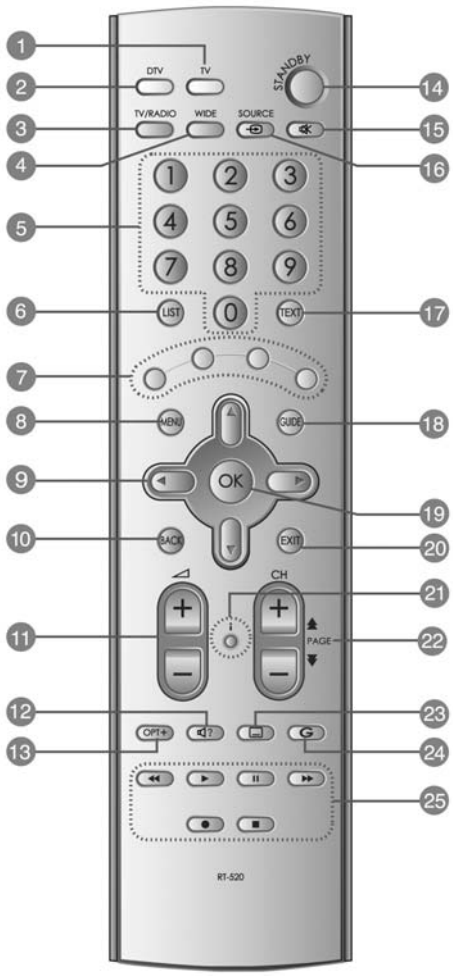
1.3 Rear Panel



1. **ANTENNA IN**
   Connects a aerial to a ANTENNA input jack on the your receiver.
2. **TV / VCR**
   Connects a RF signal from your receiver to RF(ANT) input jack on your TV or VCR.
3. **TV SCART**
   Connects a TV SCART cable.
4. **VCR SCART**
   Connects a VCR SCART cable.
5. **VIDEO**
   Connects to your TV or VCR and output Video signals.
6. **AUDIO L/R**
   Connects to your TV or VCR and output Audio signals.
7. **RS-232C**
   Connects to your PC to upgrade product's software programme.
8. **S/PDIF**
   Outputs the digital audio signals(S/PDIF).
9. **ON/OFF**
   Power on/off.

1. Before Using the Receiver

1.4 Remote Control



1. **TV**

   Tune on the TV.

2. **DTV**

   Turn on the DTV.

3. **TV / RADIO**

   Switches between TV and Radio modes.

4. **WIDE**

   Set the Display Format.

5. **NUMBERICAL BUTTONS**

   Enters a TV/Radio channel number or menu option number.

6. **LIST**

   Displays the channel list in DTV.

7. **COLOR BUTTONS**

   Select color keys for interactive applications.

8. **MENU**

   Displays the main menu in DTV.

9. **ARROW BUTTONS**

   Changes the channel or move the cursor to the up, down, left or right menu option.

10. **BACK**

    Returns to the previous menu and screen.

11. **V- / V+**

    Adjusts the audio volume of TV.

12. **SOUNDTRACK**

    Displays the Soundtrack.

13. **OPT+ (OPTION)**

    Displays the channel attributes whilst watching a programme.

14. **STANDBY**

    Switches between Operation and Standby modes.

15. **MUTE**

    Pauses the audio temporarily. That is, volumes on/off temporarily.

16. **SOURCE / AUX**

    Selects the input source between TV and receiver. / Controls input mode of TV.

17. **TEXT**

    Displays digital text.

18. **GUIDE**

    Displays the Programme Guide.

19. **OK**

    Selects a menu, or confirms the selected operation. And displays the channel list during watching a programme.

20. **EXIT**

    Exits the main menu or Guide screen.

21. **i (INFORMATION)**

    Displays the information about the channel and programme.

22. **CH - / + or PAGE - / +**

    Changes the Channel or Page.

23. **SUBTITLE**

    Changes the subtitle language.

24. **G (Game)**

    Displays the games.

25. **PLAYBACK CONTROL BUTTONS**

    Includes fast rewind, play, fast forward, record, stop, and pause buttons.

Note: This remote control can also control your TV. To set the remote control for your TV, please refer to **Chapter 13**.

2. Setup

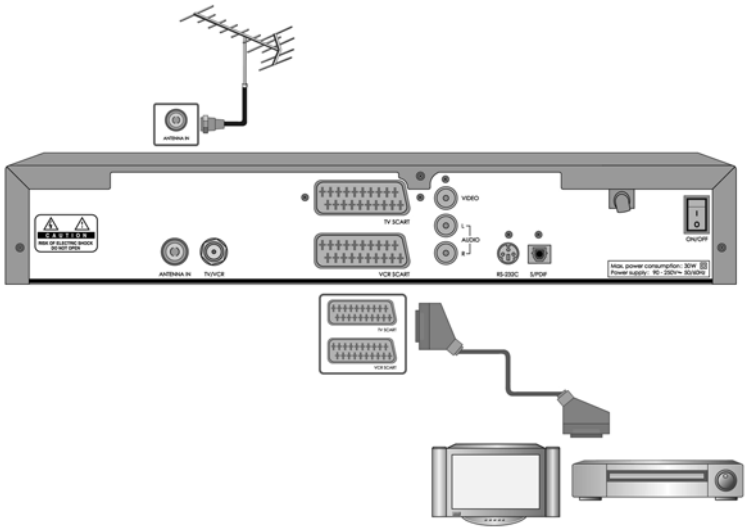
This chapter describes how to set up the receiver. Select the most appropriate procedure depending on your requirements.

Note: If you encounter any problem when setting up the receiver, please contact your local product distributor.

2.1 Connecting the Aerial

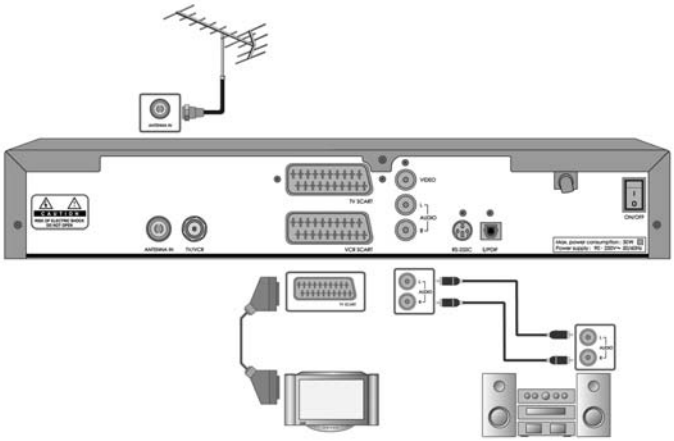
1. Connecting TV and VCR

Connect the cable of your TV aerial to the ***ANTENNA IN*** connector on the rear of the receiver. SCART and co-axial cable are connected as in the figure above.



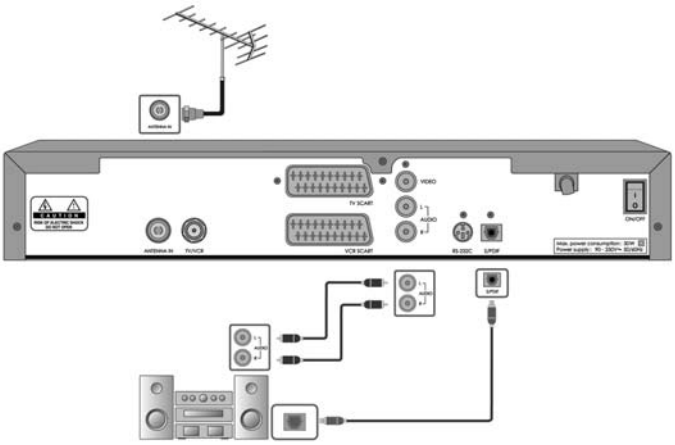
2. Connecting Hi-Fi system 1

Connect the outputs on this receiver to corresponding inputs on your Hi-Fi Audio. (left audio out to left audio in, right audio out to right audio in)



3. Connecting Hi-Fi system 2

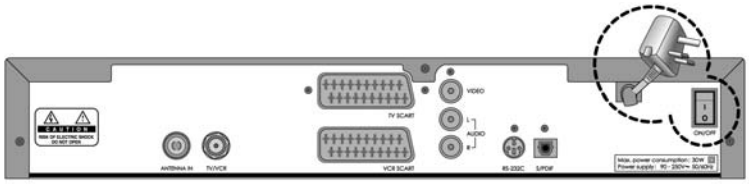
If you wish to connect S/PDIF the optical S/PDIF terminal and Dolby digital decoder to listen digital audio, connect as following.



2. Setup

2.2 Powering On

1. Connect the power cord of the receiver to a wall outlet.
   Turn on the power button, located at the left on the back of the receiver.



2. Power on by pressing the **STANDBY** (◯) button at Remote Controller or the **STANDBY** (▭) button at the front of the receiver.

3. Installation Wizard

This will guide you through the installation procedure and will perform an channel search automatically. (Installation Wizard will also run after the receiver has been returned to Default Settings.)

Search

Please wait until the channel search is complete.

1. During the channel search, the cursor is located at ***Stop***. Therefore, if you press the **OK** (OK) button during searching, the operation is stopped and the channels found until then will be displayed.
2. Even if the search does not find any channels, press the **OK** (OK) button and try to reset the search operation again if necessary.

3. You can delete unwanted channels from the found channels. Select your desired channels to delete and press the **OK** (OK) button. Then select ***Delete*** and press the **OK** (OK) button. To delete all channels, select ***Select All*** to select all channels, select ***Delete***, and press the **OK** (OK) button.
4. After completing the Channel Search and deleting unwanted channels, select ***Save*** to save the changes.

Warning: If you exit the Install Wizard without fully completing the channel searching procedures, you many not receive all the channels available. In this case, you can use the ***Installation Menu*** to configure your receiver as you like.

4. Basic Operation

This chapter describes functions such as switching channel, volume control, and basic features for watching programmes.

4.1 Switching Channel

You can switch the current channel using one of the following methods.

1. Press the **CH-/CH+** (/) button.
2. Enter your desired channel numeric using the **NUMERICAL** (0-9) button to move to the channel directly.
3. Press the **TV/RADIO** ( ) button to switch between TV channel and Radio channel.

Note: You can switch channel using the channel list or programme guide. Please refer to Chapter 5 and 6 for more information.

4.2 Volume Control

1. Press the **V-/V+** (/) buttons to adjust the audio volume.
2. Press the **MUTE** ( ) button to disables the sound temporarily.

Note: The mute function remains enabled while you change the channel. This function is only for TV. Refer to chapter 13 to set the TV.

4.3 Text and interactive services

If your chosen channel has teletext (MHEG) features , you can access them. Teletext services often load automatically shortly after the Digital Teletext window is displayed. In which case, simply follow the given instructions(press color buttons).

1. Press **TEXT** ( ) button to access teletext(MHEG) features.
2. Press **TEXT** ( ) button again to return to normal viewing.
3. Press the **CH-/CH+** (/) button to exit this service.

Note: You should select ***Off*** from the subtitle language to display teletext(MHEG).

4. Basic Operation

4.4 Change the Subtitle Language

If the current programme provides Subtitle information, you can select the language for the Subtitle.

1. Press the **SUBTITLE** button to display the subtitle language list.
2. Select your desired subtitle language using the ▲/▼ button, and press the **OK** button. Then the subtitle will be displayed in the selected language at the bottom of the screen.
3. Select ***Off*** from the subtitle language list to deactivate all subtitle from the screen.

Note: You can select a default subtitle language by selecting ***MENU - Preferences - Language Setting - Subtitle Language.***

4.5 Change a Audio Language

If the current programme is available in multiple audio languages, you can select the language that you wish to listen to.

1. Press the **SOUNDTRACK** button to display soundtrack list.
2. Select your desired audio language using the ▲/▼ button and **OK** button to change Audio immediately.
3. Select Audio Direction(left, right, stereo) using the ◀/▶ button.
4. Press the **EXIT** or **SOUNDTRACK** button to exit the soundtrack list.

Note: you can select your desired default audio language by selecting ***MENU - Preferences - Language Setting -Audio Language.***

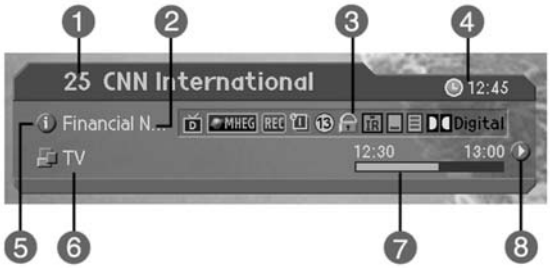
4. Basic Operation

4.6 Programme Information (I- plate)

Programme information is always displayed for a specific period of time whenever you switch channels. You can view the programme information by pressing the **i** (○) button while watching a programme. Press the **EXIT** (EXIT) button to hide the I-plate.

1. General Information

The General Information is displayed as following on the screen.



1. Channel number and channel name
2. Programme name
3. Icons

REC	Displayed only if this programme is recording.
	Displayed only if this programme is reserved.
13	Represents parental level. It indicates the minimum level of ages that the programme is targeted at.
	Displayed only when the channel is a locked channel.
	Displayed only when the channel is a scrambled channel.
	Displayed only when subtitle information is available.
	Displayed only when there is any teletext information.
Digital	Displayed only when the programme has Dolby Digital soundtrack.
MHEG	Displayed when the channel supports teletext(MHEG).
D	Displayed when the channel supports data channel.

4. Current time
5. Detailed programme information: displayed if detailed programme information is provided.
6. Signal Strength and Signal Quality bars.
7. Programme broadcasting time and progress bar: displays programme playing time and progress bar.
8. Next programme Information: displayed if next programme information is provided. Press the ▶ button to display the next programme information.

Note: If there is no available programme information, programme information is not displayed.

2. Detailed Programme Information

You can see detailed information about the current programme. Press the **i** (○) button where I-plate is displayed to view detailed information.

806 PREMIERE SCI-FI
Planet der Giganten
Der goldene Käfig
Mark und Steve entdecken im Wald ein Reagenzglas der Riesen, in dem eine hübsche junge Frau von menschlicher Größe gefangen ist. Steve glaubt an eine Falle der Riesen. Mark kann die Frau aber nicht vergessen und will sie befreien.
USA 1968. Von Irwin Allen, mit Gary Conway, Don
806 PREMIERE SCI-FI
Planet der Giganten
TV

Note:

- Press the **i** (○) button again to hide the information box.
- If the Detail information is more than one page, use ▲/▼ button to move to the previous or next page.

4. Basic Operation

4.7 Option List

You can view and confirm detailed information about the current channel and change the information in necessary.

Note: Press the **OPT+** (OPT+) button when the channel list is displayed to view option list. Then the following functions in the option list are performed to the channel where cursor is located.

1. Add a channel to favourite group

You can add the current channel to the favourite group immediately. Also, you can add a channel to multiple Favourite groups.

1. Press the **OPT+** (OPT+) button.
2. Select ***Favourite*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Favourite Group*** using the ▲/▼ button and press the **OK** (OK) button to register for favourite group.

4. Press the **OK** (OK) button again on the selected favourite group to release the registered channel.
5. Move to the parent menu using the ◀ button to save the changes automatically.

Note: For detailed information about how to change Favourite Group's name and how to register Favourite channels from the complete channel list, please refer to **Chapter 5.**

2. Lock/Unlock a Channel

You can lock or unlock the current channel whilst watching a programme.

1. Press the **OPT+** (OPT+) button.
2. Select ***Lock*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Lock*** option using the ▲/▼ button, and press the **OK** (OK) button.
4. Select ***Unlock*** option using the▲/▼ button, and press the **OK** (OK) button.
5. You will be prompted to enter your Password. Enter your password to unlock the channel.
6. Move to the parent menu using the ◀ button to save the changes automatically.

Note: When switching to the locked channel, you must enter the password to watch a programme.

3. Delete a Channel

You can delete the current channel whilst watching a programme

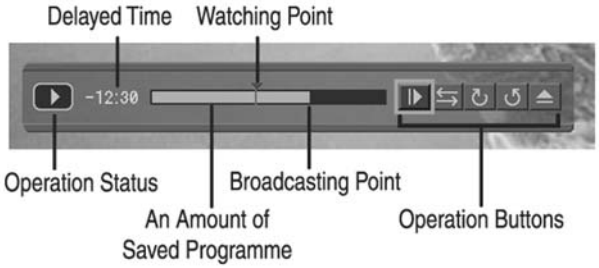
1. Press the **OPT+** (OPT+) button.
2. Select ***Delete*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Yes*** in the confirmation message and press the **OK** (OK) button.
4. Enter your password using the **NUMERICAL** (0-9) button to delete the current channel.

5. Time Shifted Recording

This unit automatically saves the programme on air in the installed hard disk drive temporarily, this allows the user to manipulate the saved programme using functions such as rewind, fast forward, replay and pause.

5.1 Time Bar

If you press playback control buttons while watching TV, the Time bar appears on the bottom of the screen.



Time bar displays the current operation status, the time difference between the broadcasting point and watching point, and an amount of temporarily saved programme. Time bar also provides 5 operation buttons on the right side for additional time shift operations.

5.2 Pause

If you press the **PAUSE** button on the remote controller, the current programme is paused. If you press the **PLAY** or **PAUSE** button once again, the programme is resumed from that point.

Note:

Pause makes the time difference or delay between the broadcasting point and watching point. The time difference is equal to the paused time period. You can check the time difference in the Time bar. Other operations such as slow motion and rewind also make the time difference. Press **STOP** button to remove the time difference, and watch the programme on air presently.

5. Time Shifted Recording

5.3 Rewind to Previous Scene

Press the **REWIND** button on the remote controller to watch the scene passed by. Whenever you press the **REWIND** button, the rewind speed increases by 3 steps.If you press the **PLAY** button, the rewinding operation stops, and the programme will play at normal speed.

Note: You can rewind to the point when you have changed to the current channel. If the watching point reaches the start point during rewinding, the programme will begin to play at normal speed from the point.

5.4 Fast Forward to the Next Scene

Press the **FORWARD** button on the remote controller to fast forward the programme. Whenever you press the **FORWARD** button, the speed increases by 3 steps. If you press the **PLAY** button, the fast forward operation is stops, and the programme will play at normal speed.

Note:

You can use the fast forward operation only when there is a time difference between the current watching and the broadcasting point caused by some previous operations such as pause, slow motion, or rewind. You can fast forward up to the current broadcasting point. If the watching point reaches to the broadcasting point, the programme will play at normal speed.

5.5 Recording

Press the **REC** button on the remote controller to start recording the current programme. While the time shift operation records the programme temporarily, record operation records the programme permanently so you can playback the recorded programme at any time. For more information about recording, refer to **Chapter 6**.

5.6 Additional Time Shift Operations Using Time Bar

You can perform additional time shift operations using the 5 operation buttons on the right side of the time bar.

5. Time Shifted Recording

1. Slow Motion

Select **SLOW MOTION** ( ) and then press the **OK** ( ) button to play the current programme in slow motion. Press the **SLOW MOTION** ( ) once again to play the programme at normal speed.

2. Direct Jump

Select **DIRECT JUMP** ( ) , and then press the **OK** ( ) button. A moving arrow appears in progress bar. Move this arrow to a desired time point using the ◀/▶ button, and then press the **OK** ( ) button to play the programme from the specified time point.

3. Skip

Select **SKIP** ( ) , and then press the **OK** ( ) button to play the programme from the time point 30 seconds forward from the current watching point. You can use the skip operation only when there is a time difference between the current watching and the broadcasting point while you use the fast forward operation. If the time difference is less than 30 seconds, the programme is played from the current broadcasting point.

4. Replay

Select **REPLAY** ( ) and press the **OK** ( ) button, to replay the current programme from the 7 seconds before. When the replay has been completed, the programme is normally played from the point.

5. Displaying a Playlist

Select **PLAYLIST** ( ) and press the **OK** ( ) button to display the currently saved programme list.

Select desired programme and then press the **OK** ( ) button to playback the programme.

You can perform the time shift operations like VCR functions using the Playback control buttons whilst playing a programme.

Press the **STOP** ( ) button to stop playing the current saved programme, and watch the current programme on air.

6. Recording and Playback

Since this product has a hard disk drive inside, you can record a programme without an external media device such as a VCR.

6.1 Instant Recording

Press the **REC** (⊙) button on the remote controller to record the current programme instantly.

Press the **STOP**(⊙) button to stop recording.

Notice

1. You cannot change channels during the recording operation.
2. Ensure that there is enough free space before recording, because if the free space on the hard disk drive is insufficient, recording will stop. Recording 1 hour of programme may require up to 3GB of free space of hard disk space. The space for recording 1 hour of programme may be different depending on the programme recorded.
3. You can record Radio programmes as well as TV programmes.

6.2 Recording Reservation

You can reserve recording to record your desired programme automatically. You can reserve recording of a programme using ***Menu-Record-Recording Schedule*** and ***Guide***. For detailed information on recording reservations using the Guide, refer to chapter 8.

1. Press the **MENU** (MENU) button.
2. Select ***Record*** using the ▲/▼ button and press the **OK** (OK) or ▶ button.
3. Select ***Recording Schedule*** using the ▲/▼ button and press the **OK** (OK) or ▶ button to display the reserved recording list on the screen.
4. Select a blank list and press the **OK** (OK) button to add a new recording reservation.
5. Select a reserved list and press the **OK** (OK) button to edit the existing reservation information.

Recording Schedule
16 24/10 07:25 ~ 08:30 World Musical 65 Min 2821 Sudwest Fernsehen R..
17 24/10 12:25 ~ 14:26 Children show 221 Min 5 ORB Fernsehen
18 24/10 11:00 ~ 12:00 Children show 9 Min 843 Pro Sieben Deutschlan..
19 24/10 15:25 ~ 16:58 World Music show 38 Min 21 ARD Digital
20 --/-- --:-- ~ --:--

Recording Schedule
16 24/10 07:25 ~ 08:30 World Musical 65 Min 2821 Sudwest Fernsehen R..
17 24/10 12:25 ~ 14:26 Children show 221 Min 5 ORB Fernsehen
18 24/10 11:00 ~ 12:00 Children show 9 Min 843 Pro Sieben Deutschlan..
19 24/10 15:25 ~ 16:58 World Music show 38 Min 21 ARD Digital
20 --/-- --:-- ~ --:--

6. Recording and Playback

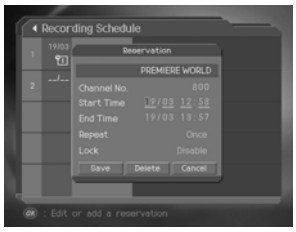
1. Adding Recording Reservations

1. Enter the ***Channel Number*** using the **NUMERICAL** (0~9) buttons. The channel name changes automatically according to the input channel number .
2. Enter the ***Recording Start Time*** using the ◀/▶ button, and Numerical buttons.
3. Enter the ***Recording End Time*** using the ◀/▶ button, and Numerical buttons.
4. Select ***Repeat*** mode from Once/Daily/Weekly using the ◀/▶ button.
5. Select ***Programme Lock*** mode using the ◀/▶ button.
6. When you have finished, select ***Save*** , and then press the **OK** (OK) button.
7. Select ***Cancel***, and then press the **OK**(OK) button to cancel the reservation.

Note:

1. You can reserve 20 programmes for recording.
2. If the programme to reserve overlaps with the existing one, adjust the reservation so as not to overlap.
3. If the target channel is locked, restricted by watching time or parental control, you have to enter a password for reservation.

2. Editing Recording Reservations



1. Change the ***Programme Title*** using keyboard screen.
2. Change the ***Recording Start Time*** using the ◀/▶ button, and Numerical buttons.
3. Change the ***Recording End Time*** using the ◀/▶ button, and Numerical buttons.
4. Change ***Repeat*** mode using the ◀/▶ button.
   You can select from Once, Daily, and Weekly.
5. Change ***Programme Lock*** mode using the ◀/▶ button.
6. Press ***Delete***, and then press the **OK** (OK) button to delete a reservation.
7. Press ***Cancel***, and then press the **OK**(OK) button to cancel an edit operation.
8. Press ***Save***, and then press the **OK**(OK) button to finish editing operation.

Note: If you have configured ***Lock*** on a recording reservation, you have to enter a password to playback the recorded programme.

6. Recording and Playback

6.3 Programme Playback

Select your desired programme from the recorded programme list, and then press the **PLAY** button to playback the recorded programme.

You can view the programme list recorded by instant recording or recording reservation by selecting ***Menu – Record – Recorded Programme***. Otherwise, you can easily view the recorded programme list using **PLAYLIST** on the right side of the Time bar whilst you are watching a programme.

1. Press the **MENU** button.
2. Select ***Record*** using the ▲/▼ button, and press the **OK** or ▶ button.
3. Select a recorded programme using the ▲/▼ button, and press the **OK** or ▶ button to display the record programme list.
4. Select the desired programme to playback using the ▲/▼ button, and then press the **PLAY** button to playback the programme.
5. Press the **STOP** button to stop the current programme, and watch the current programme on air.
6. You can perform time shift operations like VCR functions such as rewind, forward, slow motion, pause, skip, and replay using the Playback control buttons on the remote controller or the additional buttons on the right side of the time bar while you are playing back a programme.

Note: For more information on the time shift operations like VCR functions, please refer to **chapter 5**.

6. Recording and Playback

6.4 Editing Recorded Programmes

Select ***Menu – Record – Recorded Programme***, and then select the desired recorded programme to edit the information of the programme.

1. Press the **MENU** (MENU) button.
2. Select ***Record*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select a ***Recorded Programme*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button. The recorded programme list appears.
4. Select the desired programme, and then press **OK** (OK) button to display the edit screen.

Note: If you press the **INFO** (○) button while playing a programme, a screen appears showing the information on the recorded programme.

1. Deleting a Recorded Programme

Select ***Delete*** in the edit screen, and then press the **OK** (OK) button.

2. Changing The Name of a Recorded Programme

1. Select ***Programme*** in the edit screen, and then press the **OK** (OK) button to display a keyboard on the screen.
2. Enter the desired programme name on the screen keyboard using the ▲/▼/◀/▶ button.
3. Select ***OK***, and then press the **OK** (OK) button to complete.

3. Protecting Recorded Programmes from Deletion

1. Select **Protect** in the edit screen, and then press the **OK** (OK) or ▶ button to change **Enable** or **Disable**.
2. You have to enter a password to change the status from Enable to Disable.

Note: If the protect option of the programme is configured to ***Enable***, you cannot delete the programme. Therefore, you have to change the protect option to ***Disable*** to delete a protected programme.

4. Locking a Recorded programme

1. Select **Lock** in the edit screen, and then press the **OK** (OK) or ▶ button to change ***Enable*** or ***Disable***.
2. You have to enter a password to change the status from Enable to Disable.

Note: If the Lock option of a programme is configured to ***Enable*** you have to enter a password to playback the programme.

6.5 Checking Hard Disk Drive

You can check the free space of the hard disk drive, and can format the disk drive if necessary.

1. Press the **MENU** (MENU) button.
2. Select ***Record*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***HDD Control*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
4. You can check the used and free space of the HDD.
5. Select ***Format*** and press the **OK** (OK) button to remove all the recorded programmes saved on the HDD, and initialise the HDD.
6. Select ***Yes*** for the format confirm message, and enter a password to start formatting the HDD.

Note:

- You have to be careful because performing format deletes all the recorded programmes saved on the HDD.
- Even if you have removed the HDD because it is out of order, you can still watch programmes.

7. Channel List

3 types of channel lists are provided for easy and quick channel finding.

TV The list of all TV channels with 2 subgroups: one is sorted by channel number, the other is sorted by channel name.

Radio The list of all Radio channels with 2 subgroups: one is sorted by channel number, the other is sorted by channel name.

Favourite The list of the favourite channels with 5 subgroups that you can organise channels by your private taste.

7.1 Displaying and Switching Channel List

You can display channel list using **LIST** (LIST) button and switch into other channel on the channel list.

1. Press the **LIST**(LIST) or **OK** (OK) button whilst watching a programme to display the channel list.
2. Select your desired channel using the ▲/▼ button and press the **OK** (OK) button to change the channel.
3. Enter the channel numeric directly using **NUMERICAL** (0-9) button to move cursor into your desired channel. And then press the **OK** (OK) button to change into the selected channel.

4. Select ***On*** by going to ***MENU – Preferences - Miscellaneous Settings - Option in CH List*** to display scramble icon in the channel list.
   Select ***Off*** by going to ***MENU – Preferences - Miscellaneous Settings - Option in CH List*** to display only channel list without scramble icon.

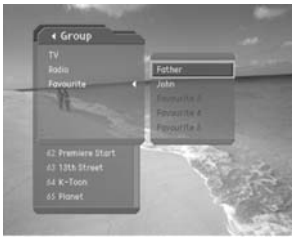
Note:

- If there are multiple channels, press the **PAGE-/PAGE+**(+/-) button to move by page.
- Whenever you press the **TV/RADIO**(TV/RADIO) button while the channel list is displayed, the channel list will be switched between TV and Radio channel list.

7.2 Changing Channel List Group

You can select channel list by group.

1. Press the ▶ button while the channel list is displayed to view the group list.
2. Select your desired channel group using the ▲/▼ button.
3. Press the **OK** (OK) or ▶ button, select your desired subgroup using the ▲/▼ button, and then press the **OK** (OK) button.
4. The channel list for the selected subgroup is displayed.



Note:

- The subgroup of favourite channel list may exist or not depending on your configuration.
- If ***Within the Current Channel List*** option is selected from ***MENU - Edit channels - Channel Change Mode*** menu, you can only change programme within the selected channel list using the **P-/P+**(+/−) while you are watching a programme.

7. Channel List

7.3 Edit Channels

You can edit all channels or each channel by channel list group.

1. Press the **MENU** (MENU) button.
2. Select ***Edit Channels*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Edit Channel Lists*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
4. You will be prompted to enter your password. Enter your password using **NUMERICAL** (0-9) button.

Note:

- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu, press the **MENU** (MENU) button to exit the menu screen.
- You can easily navigate all menus using the assigned numeric for each menu. Press the ***MENU - 3 - 1*** in order at remote controller to select ***Edit Channel List*** menu.

1. Select a Channel Group

You can select the channel list group to edit. TV or Radio, and the subgroups from the from the channel search for aerial and scramble channel lists are included as channel list groups.

1. Press the **OK** (OK) or ▶ button in Group to display channel list group.
2. Select your desired channel list group using the ▲/▼ button, and press the **OK** (OK) button.

Note:

- Press the **TV/RADIO** (TV/RADIO) button to ***move to TV or RADIO channel list*** directly.
- For editing Favourite channel list, move to ***MENU - Edit Channels - Edit Favourite Groups*** menu.

2. Delete Channels

You can delete one or more channels.

1. Move the cursor to the channel list using the ◀/▶ button.
2. Select your desired channel, and then press the **OK** (OK) button. You can select multiple channels.
3. Select ***Delete*** in the right using the ▶ button, and press the **OK** (OK) button.

3. Lock/Unlock Channels

You can lock or unlock one or more channels.

1. Move the cursor to the channel list using the ◀/▶ button.
2. Select your desired channel, and then press the **OK** (OK) button. You can select multiple channels.
3. Select ***Lock*** in the right using the ▶ button, and press the **OK** (OK) button.

Note:

- Only if all selected channels are locked, ***Lock*** is switched into ***Unlock.*** When you press ***Unlock,*** locked channel is switched into unlocked channel.
- Enter password using the **NUMERICAL** (0-9) button to watch locked channel.

4. Select/Unselect All Channels

You can select/unselect all channels at a time.

1. Select ***Select All*** in the right and press the **OK** (OK) button to select all channels.
2. Select ***Unselect All*** in the right and press the **OK** (OK) button to unselect all the selected channels.

7. Channel List

7.4 Edit Favourite Channels

You can edit Favourite channel or Favourite channel list.

1. Press the **MENU** (MENU) button.
2. Select ***Edit Channels*** using the ▲/▼ button, and press the **OK** (OK) button.
3. Select ***Edit Favourite Channels*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

Note:

- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu. Press the **MENU** (MENU) or **EXIT** (EXIT) button to exit the Menu screen.
- You can easily navigate all menu items using the assigned **NUMERICAL** (0~9) button for each menu. Press the ***MENU - 3 - 2*** in order on the remote controller to select the ***Edit Favourite Channels*** menu.

The buttons for editing the Favourite channel list are described in the following table.

Add	Adds Favourite channel.
Remove	Removes from the Favourite channel.
TV/RADIO	Switches between TV and Radio channel list.
Fav.Group	Changes Favourite channel list group.
Move	Moves the order of channel list within the Favourite channel list.
Rename	Renames the name of Favourite channel list.
Sort	Sorts channels by number or name in all TV/Radio channel list.
Unselect All	Unselect all the selected channels.

1. Add/Remove favourite channels

You can add favourite channel to a specific Favourite channel list or remove the added favourite channel from the list.

1. Select ***Favourite Group*** using .
2. Select your desired channels in all TV/Radio channel list, and press to add Favourite channels.
3. Select your desired channel(s) in Favourite channel list, and press to remove Favourite channels.

Note: You can switch between TV and Radio channel list using **TV/RADIO** button at remote controller or .

2. Move favourite channels

You can move favourite channel to your desired location within the Favourite channel list.

This function is only changing the location without changing the channel number.

1. Select ***Favourite Group*** using .
2. Select your desired channel to move within the Favourite channel list and press the **OK** button.
3. Select , and press the **OK** button.
4. Move the cursor to your desired location using the ▲/▼ button, and press the **OK** button.
5. The selected channel is moved into desired location you selected.

3. Rename a favourite channel list

You can rename Favourite channel list.

1. Select ***Favourite Group*** using .
2. Select , and press the **OK** button.
3. Enter the **Favourite channel list** name using the keyboard displayed on the screen.
4. When finishing entering the favourite channel list name, select OK, and press the **OK** button.

7. Channel List

4. Additional Features

Additional Features provides many useful functions which are necessary to add Favourite Channel.

Change between TV and Radio channel list

You can add not only TV channel but also Radio channel to Favourite channel list.

Press to switch TV or Radio channels.

Note: You can also change into TV or Radio channel by pressing **TV/RADIO** button on the remote controller.

Select a favourite channel list

You can select your desired Favourite channel list to edit.

Press to display the Favourite channel list. Then select your desired channel list using the ▲/▼ button, and press the **OK** button.

Sort a channel list

You can sort all TV or Radio channel list by channel number or name for easy Favourite channel searching.

If channel lists are sorted by channel number, is displayed. When you press this button, all the channel lists are sorted by name in alphabetical order. Or, if channel lists are sorted by channel name, is switched into . Press this button to order channels by number.

Unselect all the selected channels

Press button to unselect all the selected channel.

7.5 Channel Change Mode

You can change the channel either in the group or in the entire channels whilst watching a programme

1. Press the **MENU** (MENU) button.
2. Select ***Channel Change Mode*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***All Channels*** or ***Within the current channel list*** using the ▲/▼ button, and press the **OK** (OK) button.

Channel Change Mode
Select your channel changing mode to use CH-/CH+ keys
All Channels
Within the current channel list
Channel navigate in all or your select group.

Note: When ***Within the current channel list*** is selected, you can only change the channel within the current channel list using the **CH-/CH+** (+/-) buttons.

8. Programme Guide

The Programme Guide displays programme information about each channel, based on the date and time. You can also schedule your recording using the information given.

Note: Press the **GUIDE** button to exit the Guide screen.

8.1 Viewing Programme Guide Information

You can view programme information for all channels.

1. Press the **GUIDE** button.
2. Move to previous or next programme within the same channel using the ◀/▶ button.
3. Move to another desired channel using the ▲/▼ button. If there are multiple channels, use **PAGE-/PAGE+** button to move to channels by page. Also, you can enter your desired channel number using the **NUMERICAL** (0-9) button at remote controller to move to the channel directly.
4. Select your desired programme, and press the **OK** button. Then you can watch the programme if it is on air, or you can reserve it if it is the future programme.
5. Press the **i** button in the selected programme to view ***Extended Information*** for the selected programme.

1. Viewing Guide Information by Channel List Groups

You can view programme information for desired channel list by groups.

1. Press the **GUIDE** button.
2. Press the ***RED*** button to display the channel list group.
3. Select your desired channel list group using the ▲/▼ button.
4. Move the cursor to the sub-group using the ▶ button, select your desired sub-group using the ▲/▼ button, and then press the **OK** button.
5. The Programme Guide for selected channel list is displayed.

2. Viewing Programme Information Using Time Bar

You can quickly search for your desired time zone using the Time bar.

1. Press the **GUIDE** button.
2. Press the ***GREEN*** button to display Time Bar.
3. Select the each button using the ◀/▶ button, and press the **OK** button to move as your desired amount of time. If you press the button repeatedly, the same operation is repeated.

4. Each button functions as follows.

Now	Moves to the current programme where the cursor is located.
◀	Moves to the previous programme or 30 minutes before.
▶	Moves to the next programme or 30 minutes after.
◀◀	Moves to 2 hours before.
▶▶	Moves to 2 hours after.
◀Day	Moves to one day before.
Day▶	Moves to one day after.

5. Select button and press the **OK** button to exit the Time Bar.

Note: Guide provides programme information from the previous day to the next 7 days.

3. Reserving (Reserving a Watching)

You can automatically reserve your desired programme by selecting the scheduled programme and pressing the **OK** button.

1. Select the desired programme and press the **OK** button. The following message will be displayed.
2. Select ***Yes*** and press the **OK** button to reserve the programme. When a reservation has been completed, the is displayed on the reserved programme.
3. Select ***No*** and press the **OK** button not to reserve the programme.
4. If the channel is locked, parental controlled or restricted by watching time, you will be prompted to enter your Password. Enter your Password to complete the reservation.

8. Programme Guide

8.2 Finding a Programme

You can find your desired programme by programme name or genre easily.

1. Press the **GUIDE** button.
2. Press the ***BLUE*** button to display ***Find*** screen.
3. Enter the programme name directly using the keyboard displayed on the screen.
4. When completing entering programme name, select the ***Find***, and press the **OK** button.
5. Select ***By Genre*** and press the **OK** button to search programme by genre.

Note:

- Select ▲/▼/◀/▶ button and then press **OK** button to enter the programme name on the keyboard screen.
- If you select ***Previous*** or ***Next*** on the Keyboard displayed on the screen and press **OK** button, the keyboard layout is switched.

6. Select your desired genre using ▲/▼/◀/▶ button and press the **OK** button.

7. If you select your desired programme from the ***Found Programme List*** screen and press the **OK** button, you can watch the programme if it is on air, or you can reserve your recording if it is the future programme. If you want to find other programme, you might press the ***BLUE*** button to display keyboard screen.

Note: The ***Found Programme List*** may differ depending on the provided programme information.

8.3 Viewing Reserved Programme

You can add or edit watching-reserved programmes by schedule screen.

1. Press the **GUIDE** button.
2. Press the ***YELLOW*** button to display the ***Schedule*** screen.
3. Select the reserved programme and press the **OK** button to display the information.
4. Select a blank list and press the **OK** button to add a new watching schedule.

1. Editing a Reserved Programme

1. Change the reserved Start Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.
2. Change the reserved End Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.
3. Change the Repeat mode using the ◀/▶ button. The options are ***Once, Daily,*** and ***Weekly.***
4. Select ***Lock*** mode using the ◀/▶ button.
5. Select ***Delete*** using the ◀/▶ button and press the **OK** button to delete the reserved programme.
6. Select ***Cancel*** using the ◀/▶ button and press the **OK** button to cancel the editing.
7. Select ***Save*** using the ◀/▶ button and press the **OK** button to complete the editing.

8. Programme Guide

2. Adding a Reservation

1. Enter your desired channel number using the **NUMERICAL** (0-9) button. The channel name is automatically displayed by channel number.
2. Enter your desired Start Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.
3. Enter your desired End Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.
4. Select one of the Repeat mode options among ***Once, Daily,*** and ***Weekly*** using the ◀/▶ button.
5. Select ***Lock*** mode using the ◀/▶ button.
6. Select the ***Save*** and press the **OK** (OK) button to complete entering.
7. Select the ***Cancel*** and press the **OK** (OK) button to cancel the reservation.

Note:

- You can reserve up to 20 programmes.
- If your desired programme is overlapped with another programme, adjust the reservation appropriately.
- If the channel is locked or restricted by watching time, you will be prompted to enter your password to complete the reservation.

9. Setting Preferences

You can set censorship, watching time, and all other items suitable for your environment.

Note:

- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu. Press the **MENU** (MENU) or **EXIT** (EXIT) button to exit the Menu screen.
- You can easily select all menu items using the assigned numerical button for each menu.

9.1 Parental Control

You can set parental control for each programme and watching time. You can also change your Password.

1. Press the **MENU** (MENU) button.
2. Select the ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select the ***Parental Control*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
4. When prompting message is displayed to ask Password, enter the Password using the **NUMERICAL** (0~9) button.

1. Setting Censorship

Censorship Classification allows you to block programmes according to the age level you have set.

1. Select the ***Censorship Classification*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select your desired ***Age Level*** using the ▲/▼ button, and press the **OK** (OK) button.

View All	All programmes can be watched because there is no age limitation.
7	Programmes are blocked under the age of 7.
12	Programmes are blocked under the age of 12.
15	Programmes are blocked under the age of 15.
18	Programmes are blocked under the age of 18.
Lock All	All Programmes are blocked without considering the age level.

Note: You have to enter Password to watch the programme which is blocked by the age level.

2. Setting Allow Watch Time

You can block programmes according to the watching time for all the channels.

1. Select the ***Allow Time Control*** using the ▲/▼ button.
2. Select Enable or Disable the ***Allow Time Control*** using the **OK** (OK) or ▶ button.

   Disable You can watch whenever you want regardless of Allow Time.
   Enable You can watch only while the time specified by Allow Time.
3. When you have selected ***Enable,*** set the Start and End Time using the **NUMERICAL** (0-9) buttons, and select ***OK*** and press the **OK** (OK) button.
4. If you wish to cancel the entered time, select ***Cancel*** , and press the **OK** (OK) button.

Note: Once the setting has been completed, you can watch programme only during the time specified by Allow Time. Otherwise you will need to enter the Password to watch any programme during unspecified time.

3. Change Password

You can change the current password into new one.

1. Select ***Change Password*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Enter ***New Password*** using the **NUMERICAL** (0-9)button, and select ***OK*** and press the**OK** (OK) button.
3. Enter the New Password again to confirm the ***Verify Password,*** and select ***OK*** and press the **OK** (OK) button.

Note: The Default Password is **0000**. If you have forgotten your Password, please contact your local product distributor.

9.2 Language Setting

You can set Language for Audio, and Subtitle.

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Language Setting*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1. Audio/Subtitle Language

You can set the language for Audio and Subtitle. Default language is English.

1. Select ***Audio/Subtitle Language*** using the ▲/▼ button.
2. Press the **OK** (OK) or ▶ button to display the available ***Language LIst***.
3. Select your desired language using the ▲/▼ button, and press the **OK** (OK) button.

2. Audio Priority

You can select the priority of audio.

1. Select ***Audio Priority*** using the ▲/▼ button.
2. Presse the **OK** (OK) or ▶ button to display the ***Language*** or ***Dolby Digital*****.**
3. Select your desired option using the ▲/▼ button, and press the **OK** (OK) button.

Language	You can watch programme in the selected language.
Dolby Digital	You can listen sound in Dolby Digital mode. However, if you select Dolby Digital, you cannot change the language.

3. Subtitle Display

You can select whether or not to display the Subtitle automatically if provided.

1. Select ***Subtitle Display*** using the ▲/▼ button.
2. Select your desired option using the **OK** (OK) or ▶ button.

Auto	Subtitles are displayed automatically in the predefined subtitle language.
Manual	Subtitles are displayed in the language when you select the subtitle language by pressing the **SUBTITLE** (▭) button at remote controller.

4. Subtitle Font

You can select the Subtitle font.

1. Select ***Subtitle Font*** using the ▲/▼ button.
2. Select your desired option using the **OK** (OK) or ▶ button.

Variable	Uses the horizontally variable Subtitle Font.
Fixed	Uses the fixed Subtitle Font.

9.3 Time Setting

You can specify the current time and Power On/Off time.

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Time Setting*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1.Setting Current Time

You can set the GMT Offset for current time.

1. Select ***GMT Offset*** using the ▲/▼ button.
2. Press the **OK** (OK) or ▶ button to display ***GMT list***. GMT is changed by from 30 minutes to 1 hour.
3. Select your GMT offset using the ▲/▼ buttons, and press the **OK** (OK) button.

Note:

- The current time is set automatically whenever GMT Offset changes.
- The default item is ***Auto***. If GMT Offset is ***Auto***, it is automatically set depending on our country.

2. Power On

You can set the time when the product is automatically powered on.

1. Select ***Power On*** using the ▲/▼ button.
2. Select either Enable or Disable the Power On using the **OK** (OK) or ▶ button.

   Enable Uses the Power On and sets the Power on time.
   Disable Not uses the Power On.
3. When you have selected ***Enable***, enter the ***Channel No*** and ***Time*** using the **NUMERICAL** (0~9) buttons, and select ***OK*** and press the **OK** (OK) button.

3. Power Off

You can set the time when the product is automatically powered off.

1. Select ***Power Off*** using the ▲/▼ button.
2. Select either Enable or Disable the ***Power Off*** using the **OK** (OK) or ▶ button.

   Enable Uses the Power Off and sets the Power Off time.
   Disable Not uses the Power Off.
3. When you have selected ***Enable***, enter the ***Time*** using the **NUMERICAL** (0~9) buttons, and select ***OK*** and press the **OK** (OK) button.

Note: Once Power On/Off is specified, it is repeated everyday.

9.4 A/V Control

You can set Audio or Video Output Control.

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***AV Control*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1. TV-SCART

You can set TV SCART Output.

1. Select ***TV-SCART*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select one option among ***CVBS/RGB/S-Video*** using the ▲/▼ button, and press the **OK** (OK) button.

2. VCR-SCART

You can set VCR SCART Output.

1. Select ***VCR-SCART*** using the ▲/▼ button.
2. Select one option among ***CVBS/S-Video*** using the **OK** (OK) or ▶ button.

3. Audio Output

Set the Audio Output.

1. Select ***Audio Output*** using the ▲/▼ button.
2. Select one option from ***Stereo*** or ***Mono*** using the **OK** (OK) or ▶ button.

4. Screen Ratio

You can set the aspect ratio of your TV.

1. Select ***Screen Ratio*** using the ▲/▼ button.
2. Select one option from ***4:3*** or ***16:9*** using the **OK** (OK) or ▶ button.

5. Display Format

You can select the Display Format according to TV Screen Ratio.

1. Select ***Display Format*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. If the Screen Ratio is set to ***4:3***, you can select one from ***16:9 Letterbox/14:9 Letterbox/Centre Cutout*** using the ▲/▼ button, and press the **OK** (OK) button.
3. If the screen ratio is set to ***16:9***, this item will display ***Disable*** or ***Auto.***

9. Setting Preferences

9.5 UHF Tuning

You can set the UHF Tuning channel.

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***UHF Tuning*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1. UHF Channel

You can select UHF Channels for the TV. The Channel range and Frequency change according to PAL Standard.

1. Select ***UHF Channel*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select channel range based on the following channel criteria using the ▲/▼ button, and press the **OK** (OK) button.

CH21-CH69	PAL I/G for Europe
CH28-CH69	PAL B for Europe/Australia

2. PAL

You can select the PAL standard.

1. Select ***PAL*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select one option among ***PAL I/PAL G/PAL B*** using the ▲/▼ button, and press the **OK** (OK) button.

3. UHF Offset

You can adjust fine tuning setting.

1. Select ***UHF Offset*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select a range between ***-4~ + 4*** using the ▲/▼ button, and press the **OK** (OK) button.

9.6 Miscellaneous Settings

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Miscellaneous Settings*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1. i-Plate Display Time

You can set the duration during which the Information box is to be automatically displayed when you switch the channel.

1. Select ***i-Plate Display Time*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select a value between 1 ~ 20 seconds using the ▲/▼ button, and press the **OK** (OK) button.

Note: When it is set to ***Disable,*** the i-Plate will not be displayed when you switch the channel.

2. OSD Transparency

You can set the transparency of On Screen Display.

1. Select ***OSD Transparency*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select one option among ***Disable/25/50/75*** using the ▲/▼ button, and press the **OK** (OK) button.

Disable	Fully opaque screen
25, 50, 75	As the number is bigger, the screen is more transparent.

3. Option in Channel List

You can set whether or not to display the scrambled icon in channel list.

1. Select the ***Option in CH List*** using the ▲/▼ button.
2. Select one option from ***On/Off*** using the **OK** (OK) or ▶ button.

On	Scramble icon display in the channel list.
Off	Scramble icon disappear in the channel list.

10. Installation

10.1 Automatic Search

If your receiver is connected to the aerial and television, you can automatically search channels without entering any other information.

1. Select **MENU** (MENU) button.
2. Select ***Installation*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Automatic Search*** from Installation menu using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

Search

Wait while the receiver searches for the channels, this may take a few minutes.

1. During operating search, the cursor is located at ***Stop.*** Therefore, if you press the **OK** (OK) button during searching, the operation is stopped and the channels found until then will be displayed.
2. If search operation is successfully completed, and the channel does not exist, press the **OK** (OK) button and try to reset the search operation again if necessary.
3. You can delete unnecessary channels from the searched channels. Select your desired channels to delete and press the **OK** (OK) button. Then select ***Delete*** and press the **OK** (OK) button. To delete all channels, select ***Select All*** to select all channels, select ***Delete,*** and press the **OK** (OK) button.
4. When completing Channel Search and deleting unnecessary channels, select ***Save*** to save the changes.

10.2 Manual Search

You can search channels manually by searching parameters, if you know the MUX information.

1. Select **MENU** (MENU) button.
2. Select ***Installation*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Select ***Manual Search*** from Installation menu using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
4. Select ***Channel, Frequency, Mode, Guard Interval, or Network Search*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

1. Channel Number

Enter your desired frequency channel to search. When entering frequency channel value, the appropriate frequency value is entered.

Select one of channel using the ▲/▼ button, press the **OK** (OK) button.

2. Frequency

Enter the desired frequency to search directly. When entering the frequency, the appropriate channel for the entered frequency is automatically displayed on Channel.

Enter frequency using the **NUMERICAL** (0~9) button and press **OK** (OK) button.

3. Mode

Required for Channel Search. If you don't know the value, please select Auto.

Select among ***Auto, 2k*** and ***8k*** using the ▲/▼ button, and press the **OK** (OK) button.

4. Guard Interval

Required for Channel Search. If you don't know the value, please select Auto.

Select one option among ***Auto, 1/4, 1/8, 1/16*** and ***1/32*** using the ▲/▼ button, and press the **OK** (OK) button.

5. Network Search

If specified frequency channel information and other channel information are provided together, the channel, which belongs to other frequency channel, is also searched.

Select one option between ***Enable*** and ***Disable*** using the ▲/▼ button.

Note: You can search after the setting of Manual Search. Refer to **8.1 Automatic Search**.

10.3 Default Setting

Default Setting restores the receiver to the default settings.

Warning: Please Note that once you perform Default Setting, all data such as Aerial Setting information Channel List, and User Configured data are deleted.

To perform Factory Default:

1. Press the **MENU** (MENU) button.
2. Select ***Installation*** using the▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Enter ***Password*** using the **NUMERICAL** (0-9) button.
4. Select ***Default Setting*** using the ▲/▼ button, press the **OK** (OK) or ▶ button.

Default Setting
All setting values will be returned to the initial values. Do you want to reset all setting values ?
Password

5. Select ***Yes*** and press the **OK** (OK) button to restore all setting to Factory Default.
   Select ***No*** and press the **OK** (OK) or **BACK** (BACK) button to return to the previous menu.
6. Confirm again to start loading default setting. Enter ***Password*** using the **NUMERICAL** (0~9) button to perform restoring.
7. When default setting is completed, Installation Wizard is automatically displayed, which helps Channel Search. For detailed information about Installation Wizard, refer to ***Chapter 3***.

11. Software Update

In order to maintain proper performance of this product, it is essential to have the most up-to-date software. The latest news and release of software versions may be found at the HUMAX website – http://www.humaxdigital.com. It is recommended that you periodically check for the availability of software update.

11.1 OTA (Over the Air)

OTA, an abbreviation of **Over–the-Air**, means that downloads the software can be downloaded where the manufacturer reserves the right to decide when and where to release through Aerial system.

Over the Air(OTA) is simply an alternative method for downloading software versions. However, the manufacturer reserves the right to decide when and where this software update can take place by **beaming** latest software versions over the air via aerial systems. The software update via aerial system will only occur under the following circumstances.

1. The equipment should have appropriate loader software.

   Caution: Please note that if you don't have normal loader software, the equipment may not be updated or work after software update.

2. The manufacturer decides to release software downloading via a designated aerial system.
3. The equipment must be **tuned** properly to the same aerial that the manufacturer uses.
4. Update software when the quality of receiving signal strength is high. If the weather is not so good that the quality of receiving signal strength is not recommendable, perform the software update later.

Caution:

- Please be careful to keep the power on and the power cord plugged in during software update. If the power is disconnected during software update, it may cause fatal damage to the product.
- Please be careful not to pull out the signal line (co-axial Cable) during software update. Update may be interrupted and the product may not work.

Note:

- The other functions of product cannot work at all during software update.
- It may take 5 ~10 minutes to update software.
- Scheduling operation cannot work during software update.

11. Software Update

1. If new software is found when powering on

1. A message will be displayed to notify that new software is found.
2. Select ***Yes*** and press the **OK** (OK) button to update the software.
3. Starts downloading new software. Please wait until the updated is completed.
4. When completing the software update, the equipment is automatically powered off and on again.

2. If updating software from Menu

1. Press the **MENU** (MENU) button.
2. Select ***Installation*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
3. Enter ***Password*** using the **NUMERICAL** (0-9) button.
4. Select ***Software Update*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

Software Update
1 Automatic Update
2 Manual Update
3 Software Auto-Detecting Enable
4 Auto-Detecting Time 04:00
OK / ▶ Move to the selected submenu

3. Automatic Update

You can set the product to find HUMAX software update site and update software automatically.

1. Select ***Automatic Update*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button. Automatically search for new software.
2. When detecting update software, the following result is displayed. If new software is not found by Automatic, use Manual Update.
3. Select ***Yes*** and press the **OK** (OK) button to start updating. Select ***No*** and press the **OK** (OK) button to return to the previous menu without updating. Select ***Later*** and press the **OK** (OK) button to update later. That means the update menu display as soon as you turn on the receiver next time.
4. When completing the software update, the product is automatically powered off and on again.

4. Manual Update

You can perform Manual Update only if you know MUX information of software update correctly.

1. Select ***Manual Update*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select the channel number which provides update software. You can also enter the frequency instead of channel number in which updated software is provided.
3. Select ***Mode.*** If the information is not known, then ***Auto*** can be selected.
4. Select ***Guard Interval.*** If the information is not known, then ***Auto*** can be selected.

   Note: How to setting parameters in ***Manual Update*** is the same as how to set parameters in ***Manual Search.*** Refer to ***Manual Search.***

5. Select ***Search*** and press the **OK** (OK) button to search software.
6. It is displayed whether or not New Software exist. If new software does not exist, press the **OK** (OK) button to return to the Manual Update Menu.
7. Select ***Yes*** and press the **OK** (OK) button to start updating. Select ***No*** and press the **OK** (OK) button to return to the previous menu. Select ***Later*** and press the **OK** (OK) button to update later.
8. Performs Software Update. Please wait until it is completed.
9. When completing the software update, the product is automatically powered off and on again.

11. Software Update

5. Software Auto-Detecting and Time

You can specify the software detecting time.

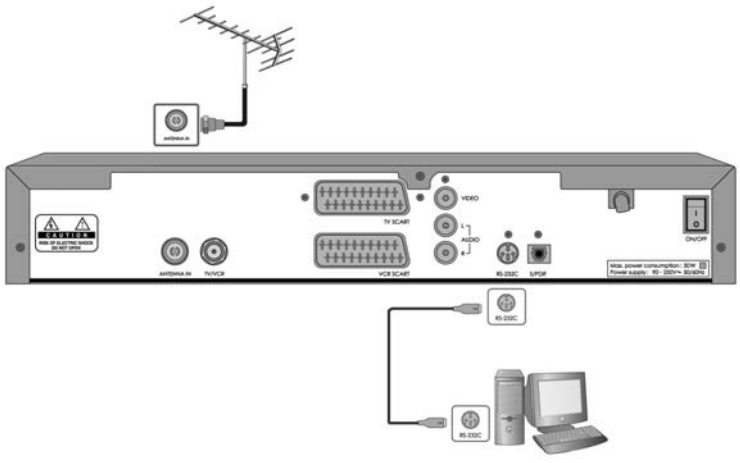
If the receiver powers on during software auto-detecting, Detecting will stop.

1. Select ***Software Auto-Detecting*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Select ***Enable*** or ***Disable*** and press the **OK** (OK) or ▶ button whether or not setting the software detecting time automatically.
3. When you select ***Enable***, you can set the detecting time in the Auto-Detecting Time.

11.2 S/W Update from PC

You can connect your receiver to the PC directly and update your software by transferring the new software from the PC. Follow these steps to download new software from PC to this product.

1. Download new software file (HDF files) equivalent for this product model from our website into your computer (http://www.humaxdigital.com).
2. Download and install download tool file from our website into your computer.
3. Connect your PC to this product with ***RS-232C*** serial cable.
4. Execute installed download tool, and then follow the instructions contained the download tool.
5. Press the **STANDBY** (◯) button to make this product operating.



12. System Information

You can view all system information, and signal detection.

1. Press the **MENU** (MENU) button.
2. Select ***System*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.

12.1 Status

You can view System information

1. Select ***Status*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Confirm the information about ***Hardware version, Software version, Loader version, System ID and Update Date.***

12.2 Signal Detection

You can view the signal strength and signal quality receiving for the channel that is currently on AV.

1. Select ***Signal Detection*** using the ▲/▼ button, and press the **OK** (OK) or ▶ button.
2. Display information about the aerial and transponder, which current channel belongs to and the graphs and percentage of Signal Strength and Quality of the channel.

13. Manipulating your TV using Remote Control

You can manipulate TV using the remote control provided by Humax.

Note: This function may not be supported depending on TV model.

TV code setting

Note: While you are setting TV code, please keep pressing TV button.

1. Point remote control towards the remote control receiving parts of TV.
2. Press the **TV** (▭) button, and the TV button LED blinks once.
   Keep pressing ***TV*** button for 3 seconds, then TV button LED turn on.
   Press three numbers of TV code using the **NUMERICAL** (0~9) button orderly.
   Refer to the following ***Code for TV manufacturer.***
3. TV button LED blink twice when you detach your finger from the TV button.
4. TV power turns on or off when the setting is completed.

[Code for TV manufacturer] Table

Brand	Code	Brand	Code
A MARK	002	ARCAM	062,063
ABEX	016	ARCHER	002
ACTION	110,124	ASUKA	064,071
ACURA	004	ATLANTIC	098
ADMIRAL	030,042,076,099,123	AUDINAC	081
ADYSON	016,063	AUDIOSONIC	018,071
AIKO	029	AUDIOVOX	002,029,052,084
AKAI	015,099,109,124	AUMARK	026
AKURA	064,071	AUTOVOX	068,076,097
ALARON	051,055,062	BARCO	086
ALBA	004,017,018,064,123, 117	BASIC LINE	004,064
		BAUR	018,087,097,099,102, 108
ALLORGAN	118		
AMBASSADOR	049	BAYSONIC	052
AMPLIVISION	063	BEAUMARK	050
AMSTRAD	004,018,047,049,145	BEC	099,110,124
ANAM	003,004,052	BECRESE	040,099,108,109,110
ANAM NATIONAL	024	BELCOR	009
ANITECH	004,071	BELL & HOWELL	006,038,106
ANSONIC	127	BEON	018
AOC	002,009,015,056	BINATONE	063

Brand	Code
BLACKSTRIPE	040,106,108
BLAUPUNKT	059,060,061
BLUE SKY	064
BLUE STAR	075
BOOTS	063
BOSCH-BAUER	098
BPL	075
BRADFORD	052
BRINKMANN	123
BRITANNIA	062
BROCKWOOD	009
BROKSONIC	002,067,085
BROTHER	071
BRUNS	126
BSR	093,118
BTC	064
BUSH	004,017,018,064,075, 093,099,117
CANDLE	015,025,057
CAPEHART	124
CAPSONIC	071
CARNIVALE	015
CARREFOUR	017
CARVER	023,046
CASCADE	004
CATHAY	018
CCE	063,018,078
CCI	115
CENTURION	018
CGE	101,123
CIE	133
CIMLINE	004,117
CINERAL	029,084
CITIZEN	015,019,025,026,029, 040,057,074
CLAIRTONE	056

Brand	Code
CLARIVOX	018,125
CLATRONIC	098,127
CME	004,005,017,018,028, 042,049,063,065,066, 068,076,079,087
CONCERTO	025
CONDOR	098
CONIC	110
CONTEC	004,017,052,056,062
CONTINETAL EDISIN	141
CRAIG	052
CRIPTOVISION	105
CROSLEY	023,110
CROWN	004,018,019,052,127
CS ELECTRONICS	062
CTC	098
CURTIS MATHES	006,015,019,020,021, 023,025,026,030,035, 038,040,044,084,106
CXC	052
CYBERTRON	064
DAEWOO	004,009,018,019,029, 084,133
DAINICHI	064
DANSAI	018
DAYTON	004,009,019,108
DE GRAAF	066
DECCA	018,028,129
DENON	035
DESMET	098
DIXI	003,004,018,126
DUAL	097
DUAL TEC	063
DUMINT	127
DUMONT	007,009
DYNATECH	063

13. Manipulating your TV using Remote Control

Brand	Code
EB TELECOM	105
ECTEC	081
ELBE	116
ELECTROBAND	056
ELECTROHOME	080,106,110
ELEKTA	071
ELIN	018
ELITE	040,064,098,106
ELMAN	127
ELTA	004
EMERSON	009,019,038,049,050,051,053,054,055,056,067,072,074,075,085
ENVISION	015
ERRES	018
EURO-FEEL	071
EUROMANN	071
EUROPHON	127
FERGUSON	018
FIDELITY	062,097,104
FINLADIA	106
FINLUX	018,028,051,093,129
FIRST LINE	118,004,062,063
FISHER	038,041,063,097,106,108,126
FORMENTI	018,098,103
FRONTECH	042,071,099
FUJITSU	028,051,124
FUNAI	047,051,052,071,118
FUTURETECH	052
GALAXIS	123,142
GBC	099
GE	011,013,020,021,024,030,034,050,075,084
GEC	018,028,063,095,110,129

Brand	Code
GELOSO	004,099
GENEXXA	042,064
GIBRALTER	007,009,015
GO VIDEO	026
GOLDSTAR	000,001,009,015,016,018,019,025,033,050,063,071,093,110,124,140
GOODMANS	017,018,028,051,063,133
GPM	064
GRADIENTE	022,025,046,082
GRADIN	098
GRAETZ	042,099
GRANADA	018,028,063,109,124
GRANDIN	075
GRUNDIG	018,059,060,068,137
GRUNPY	051,052
HALIEAX	071
HALLMARK	050
HANSEATIC	018,089,097,098,099,118,119
HARLEY DAVIDSON	051
HARMAN KARDON	023
HARVARD	052
HCM	004,071,075
HEMMERMANN	097
HINARI	004,017,018,051,064
HISAWA	075
HITACHI	094,095,096,099,102,108,109,110,111,112,113,114,124,148,016,017,025,031,032,035,037,042,048,063,066,090,091
HUANYU	062

Brand	Code
HUSPI ELEKTRONIK	123
HYPERVISION	134
HYPSON	018,071,075
ICE	063,071
ICES	064
IMPERIAL	092,099,101,123
INDESIT	068
INDIANA	018
INFINITY	023
INGEKEN	139
INGELEN	042
INNOHIT	028,124
INNOVA	018
INTEQ	007
INTERBUY	071
INTERFUNK	018,042,095,099
INTERVISION	018,063,071,127,144
ISUKAI	064
ITT	042,099,108
JACSON	129
JBL	023
JCB	137
JEC	040
JVC	017,022,045,054
KAISUI	004,062,063,064,075
KAMP	062
KAPSCH	042,095,099
KATHREIN	089
KAWASHO	062,077
KEC	052
KENDO	018,099,117,119,127
KENWOOD	009,015
KINGSLEY	062
KLH	124
KLOSS	012
KMC	033

Brand	Code
KONIG	004,005,017,018,042, 061,068
KORPEL	018
KORTING	098
KOYODA	004
KTV	015,019,052,055,056, 063,074
KUBA ELECTRONIC	097
LENCO	071,133,146,018,028 118,124
LG	025
LIESENK & TTER	018
LIFETEC	071
LLOYTRON	016
LOGIK	000,006
LUMA	099
LUXMAN	025
LUXOR	068,094,099,102,124
LXI	007,020,023,038,040, 050,106
M ELECTRONIC	004,018,042,063,097, 127
MAGNAFON	127
MAGNASONIC	106
MAGNAVOX	010,012,014,015,017, 023,051,057,058,110
MAJESTIC	006
MANDOR	071
MANESTH	063,071,098,117
MARANTZ	015,018,023,089
MARK	018
MATSUI	004,005,018,049,063, 092,097,117
MATSUSHITA	021,070
MC MICHAEL	110
MEDIATOR	018

Brand	Code
MEGATRON	002,035,050,109
MEI	056
MEMOREX	004,006,025,026,033, 036,038,050,070,071, 106
MEMPHIS	124
MGA	009,015,036,039,050
MIDLAND	007,016,019,020,021, 034
MINERVA	068
MINUTZ	011
MITSUBISHI	009,017,030,036,039, 050,068
MIVAR	062
MOTOROLA	024,030
MTC	009,015,025,026,056, 062
MULTISTANDARD	127
MULTITECH	004,052,062,063,099, 127
MUTIMEDIA	132
NAD	040,044,050
NAONIS	099
NATIONAL	068
NEC	009,015,017,025,046
NECKERMANN	018,059,087,089,099, 102
NEI	018
NESCO	051
NETSAT	018
NIKKAI	016,018,028,040,062, 064,071,124
NIKKO	007,015,020,029,038,

Brand	Code
NIKKO	040,050
NISATO	081
NOBLEX	083
NOKIA	071,094,095,096,099, 106,108,143
NOSHI	008
NTC	029
OCEANIC	042,099,106,118
ONWA	052
OPTIMUS	038,044,070
OPTONICA	030,043
ORION	018,049,051,067,085, 097,098,118,117
OSAKI	016,028,063,064,071, 124
OSO	064
OSUME	016,028,124
OTTO VERSAND	017,018,059,063,087, 089,093,097,098,099, 102,108,117,118
PALLADIUM	099
PANAMA	063,071
PANASONIC	000,020,021,022,023, 024,026,030,035,036, 038,040,042,043,050, 065,068,070,079,099
PATHE CINEMA	062,098
PAUSA	004
PCE/PEC	040,106,108
PENNEY	001,102,008,009,011, 013,015,016,019,020, 021,025,026,034,040, 050

Brand	Code
PHASE	016
PHILCO	009,010,012,014,015, 023,035,057,058,085, 123
PHILIPS	007,008,009,010,011, 012,013,014,018,019, 023,089,110,124,138
PHONOLA	018,098
PILOT	009,015,019
PIONEER	042,044
POLICOM	068
POLYRON	071
PORTLAND	009,019,029
PRANONI PRINCE	099
PRIMA	040,106
PRINZ	124
PRISM	021
PROFEX	004
PROLINE	119
PROSCAN	015,020
PROTEC	099,127
PROTECH	004,018,063,071
PROTON	002,050
PULSAR	007,009,110,124
QUASAR	021,024,043,070
QUELLE	005,018,087,093,097, 099,108,117,118
QUESTA	017
RADIO SHACK	009,015,016,019,020, 025,038,043,050,052, 106
RADIOLA	018
RADIOTONE	071
RADIX	108
RANK ARENA	017
RCA	008,009,020,021,030,

Brand	Code
RCA	034
REALISTIC	009,015,016,019,025, 038,043,050,052,106
REKORD	149
REVOX	018
REX	042,071,076,099
RFT	088,126
RHAPSODY	055,056,062
R-LINE	018
ROADSTAR	004,064,071
ROYAL LUX	131
RTF	018
RUNCO	007,015
SABA	042,095,099
SAGEM	139
SAISHO	004,005,049,071,117
SAKIO	071
SALORA	042,094,099,102,106, 124
SAMBERS	127
SAMPO	015,016,019
SAMSUNG	004,009,015,016,018, 019,025,026,050,063, 071,078,089,124,137
SAMSUX	019
SANDRA	062
SANSEI	084
SANSUI	085
SANYO	005,017,028,038,041, 106,107,108,124,129
SBR	018
SCHAUB LORENZ	099
SCHNEIDER	018,064,071,097,136, 143,147
SCIMITSU	009
SCOTCH	050

13. Manipulating your TV using Remote Control

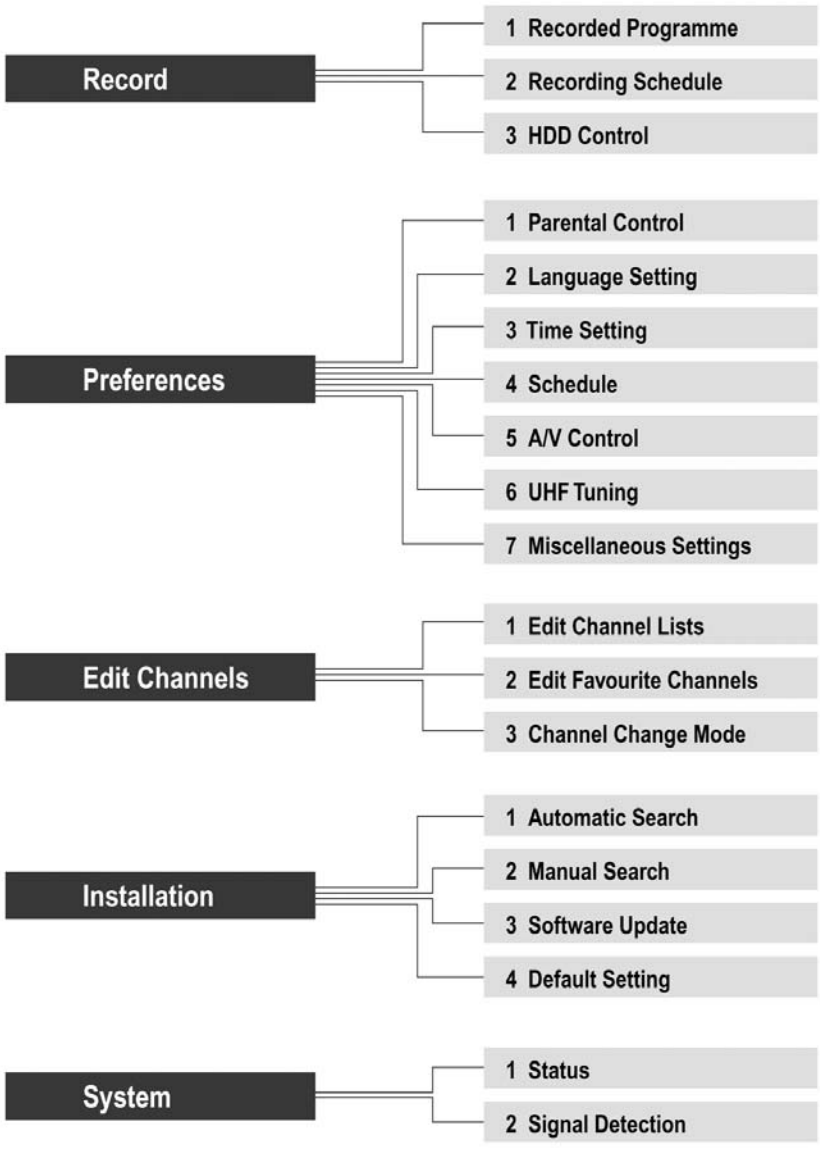
Brand	Code
SCOTT	009,050,051,052,067
SEARS	020,023,025,038,040, 041,047,050,051,106
SEG	017,063,071,126,127
SEI	049
SEI-SINUDYNE	097,099,117,118,127
SELECO	042,076,099,100,119, 120,122
SEMIVOX	052
SEMP	040
SENTRA	040
SHARP	017,019,030,043
SHOGUN	009
SHORAI	118
SIAREM	127
SICATEL	121
SIEMENS	018,059,060,061
SIGNATURE	006,040
SILVER	017
SIMPSON	057,058
SINGER	127
SINUDYNE	049
SKANTIC	099
SKY	018
SOGERA	098
SOLAVOX	016,042
SONITRON	108
SONOKO	004,018,071
SONOLOR	042
SONTEC	018
SONY	005,017,073,087
SOUND & VISION	127
SOUNDESIGN	050,051,052,057
SOUNDWAVE	018
SPECTRA	133
SPECTRICON	002
SQUAREVIEW	047

Brand	Code
SR2000	106
SSS	009,052
STANDARD	004,063,064,098
STARLITE	052
STERN	042,076,099
SUNKAI	117,118
SUPERTECH	097
SUPRA	025
SUSUMU	064
SULVANIA	010,012,014,015,023, 057,058,080
SYMPHONIC	047
SYSLINE	018
TADNDY	124
TANDY	028,030,042,063,064
TASHIKO	110
TASHKO	017,063
TATUNG	002,018,024,028,063, 124
TEC	063,133
TECHLINE	127
TECHNEMA	098
TECHNICS	007,020,021,070
TECHNISAT	130
TECHNOL ACE	051
TECHWOOD	002,021,025
TEKNIKA	006,009,019,023,025, 026,029,036,051,052, 057
TELECO	135
TELEFUNKEN	025
TELEMEISTER	098
TELETECH	004
TELETON	017,057,063,099
TELEVIDEON	098
TENSAI	064,093,098,118
TESLA	135

Brand	Code
TEXET	062,064
THOMAS	110,124
THOMSON	068
THORN	018,028,040,087,107, 108,110,112,128,129
TMK	025,049,050
TOKAI	124
TOMASHI	075
TOSHIBA	017,026,038,040,069, 106,108
TOSONIC	056
TOTEVISION	019
TOWADA	099,127
TRIUMPH	049,069
TV TEXT	089
UHER	098,127
ULTRA	081,124
ULTRAVOX	127
UNIVERSAL	011,013
UNIVERSUM	018,071
VECTOR RESEARCH	015
VESTEL	018
VICTOR	022
VIDEOTECHNIC	063

Brand	Code
VIDEOTON	094
VIDIKRON	023
VIDTECH	009,017,050
VISA	004,005,017,018,042, 068
VISION	098
VOXSON	042,099
VTQ	126
WALTHAM	063,094,099
WARDS	006,009,010,011,013, 014,015,023,025,034, 040,043,050,051,058
WATSON	018,098
WATT RADIO	097,127
WEGA	017
WHITE WESTINGHOUSE	018,062,098,106
WORLD-TECH	133
YAMAHA	009,015
YOKO	018,063,071,133
YORK	108
ZANUSSI	076,099
ZENITH	006,007,029
ZONDA	002

14. Menu Map


Record
1 Recorded Programme
2 Recording Schedule
3 HDD Control
Preferences
1 Parental Control
2 Language Setting
3 Time Setting
4 Schedule
5 A/V Control
6 UHF Tuning
7 Miscellaneous Settings
Edit Channels
1 Edit Channel Lists
2 Edit Favourite Channels
3 Channel Change Mode
Installation
1 Automatic Search
2 Manual Search
3 Software Update
4 Default Setting
System
1 Status
2 Signal Detection

15. Troubleshooting

Before contacting your local service, please make sure following instructions. If the product does not work normally after completing the following trouble shooting, please contact your local product distributor or service centre.

15.1 Troubleshooting

1. No message is displayed on the front panel or product has no power.
   - Check the main power cable and check that it is plugged into a suitable power outlet.
   - Check whether Power Switch is On.
2. No picture.
   - Make sure that the product is in Operation Mode.
   - Make sure that the AV Cable is firmly connected to the TV.
   - Make sure that Aerial line is correctly connected to the equipment.
   - Check the brightness level of TV.
   - Check the channel is on air.
3. Poor picture & sound quality.
   - Install the aerial in a place where there is no obstacle.
   - Make sure there is no mobile phone or microwave oven near the equipment.
   - Use 75 Ω coaxial cable to connecting TV and aerial.
4. No or poor sound.
   - Check the volume level of the TV and Receiver.
   - Check the Mute status of the TV and product.
   - Press the Audio button to change the Sound Track type.
5. Remote controller does not operate.
   - To control the equipment with the remote controller, the remote controller's top end should directly point towards the receiving part of receiver's remote controller.
   - Check the battery of Remote controller.
6. Reservation is not available.
   - Check whether it it not overlapped with other reservation.
   - Cehck whether the power switch is off.

15. Trouble Shooting

15.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The aerial is not pointing properly.	Adjust aerial. Check the cable from the aerial. If you cannot resolve the problem you may need to have your aerial and installation tested by a professional.
The channel is scrambled or not available.	The channel has signal, but no audio or video. The channel is not deleted by broadcasting company. The channel is for data broadcasting.	Confirm if the channel is currently on air. Cannot watch the channel in usual way.
The channel is scrambled.	This digital terrestrial receiver does not support the service that enables to descramble the scrambled channels.	
The audio is not available.	The channel has signal, but no Audio.	Press the Audio button to confirm if the channel has Audio.

16. Specification

Input Connector	
RF Loop through Output connector	IEC-Type, IEC 169-24, male
Frequency Range	48.5MHz to 226.5MHz (VHF) 470MHZ to 862MHz (UHF)
Signal Level	-10 to -70dBm
Demodulation	OFDM
Mode	2K, 8K
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG2 MP@ML
Video Input Rate	15 Mbit/s Max
Aspect Ratio	4:3, 16:9, Letter box
Video Resolution	720 x 576, 720 x 480
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single channel/Dual channel/Joint Stereo/Stereo
Memory	
Flash Memory	4 M byte
Graphics (MPEG) & System DRAM	(8 + 16) M byte
EEPROM	8 Kbyte

16. Specification

A/V & Data In/Out	
Video	RCA/SCART Video Output(CVBS, RGB, S-Video)
Audio R/L	RCA/SCART Volume and Mute Control (Resolution: 20 bits DAC, MAX. 2Vrms)
S/PDIF	Digital Audio Output, Fiber-Optic(Resolution : 20 bits)
RS-232C	Transfer Rate: 115,200 bps, 3 pin Socket type
Power Supply	
Input Voltage	90 ~ 250V AC, 50/60Hz
Type	SMPS
Power Consumption	Max. 30W
Stand by Power	≤ 8.5W
Protection	Separate Internal Fuse. The input should be protected against lighting.
Physical Specification	
Size	370 mm X 60 mm X 262 mm
Weight (Net)	Around 3.5 kg
Operating Temperature	0 ℃ to +45 ℃
Storage Humidity	-10% ~ +70% RH(Non-Condensing)

17. Glossary

Programme Guide (Electronic Programme Guide, EPG)

A electronic programme guide (EPG) that comes with the broadcast to a particular aerial, Note that every station fills the EPG differently or not, so differences in the EPG are not necessarily receiver errors.

Frequency

The number of cycles or events per one second, which is expressed in the unit of hertz.

FTA (Free- To-Air)

An unscrambled broadcast, which you can view without additional payments to a service provider.

OSD (On Screen Display)

The function that displays the information about the monitor that the user needs or has to know on the screen directly. OSD information includes brightness, contrast, tuning, RGB adjustment, and screen size and positions (top, left, width, and height), and so on.

OTA (Over The Air)

Means that software downloads where the manufacturer reserves the right to decide when and where to release them through aerial.

SCART

A 21-pin connector used for connection of this product, VCR and TV. Also called Euroconnector or Peritel connector.

S/PDIF (Sony/Philips Digital Interface format)

Standard format for digital audio output. It outputs audio signals directly as digital audio signals without changing into analog signals because conversion into analog signals can degrade signal quality.

18. Service and Support

You can get information such as a troubleshooting guide, software upgrades and product support guide from the following web sites and call center (Hotline).

Please try to contact to your local dealers first when you have any problem.

Web site and e-mail

Homepage

http://www.HUMAXdigital.com	English
http://www.HUMAXdigital.com/Deutsch/	Deutsch
http://www.HUMAXarabia.com	Arabic

HCSA (Humax Customer Service Area)

Software Download, Information and Technical Q&A

http://www.humaxdigital.com/hcsa/	English
http://www.humaxdigital.com/Deutsch/hcsa/	Deutsch

E-mail (Technical Q&A)

tech-info@humax-digital.co.uk	Europe & North Africa
techinfo@humax-digital.de	Germany
callcenterME@humaxdigital.com	Middle East
Webmaster@humaxdigital.com	Asia & Other area

Call Center

Humax Middle East Call Center (Dubai, UAE)

Tel: +971 (0)4 359 2323 (Open: 9:00 – 20:00 / close on Friday)
E-mail: callcenterME@HUMAXdigital.com
Open: Local Time in Dubai (GMT+4)
9:00 – 20:00 (Saturday – Thursday, close on Friday)
Support Language: English/Arabic

Humax Hotline (Germany)

Germany: 01805 778 870 (€ 0,12/Min)
Other Countries: + 49 1805 778 870 (€ 0,12/Min+ International Call Charge)
Open: Local Time in Germany (GMT+1)
8:00 - 20:00 (Monday - Friday)
8:00 - 18:00 (Saturday)
Support Language: Deutsch/English

Humax BTCI Hotline (Premiere Model)

Germany: 01805-778900 (€ 0,12/Min)
Austria: 0900-900633 (€ 0,33/Min)

For hardware repair, please refer to support website. (Homepage or HCSA)

www.humaxdigital.com

HNPVR8000T.200GB